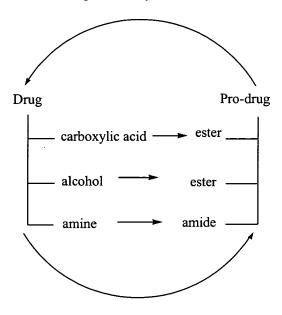
#### Endogenous enzymes/metabolism



**CHEMICAL SYNTHESIS** 

Fig. 1

 $R = CH_3 = acetate$ 

=  $CH_3$  -  $(CH_2)_2$  = butyrate =  $CH_3$  -  $(CH_2)_4$  = hexanoate

### In Vitro Release of Florfenicol Derivatives

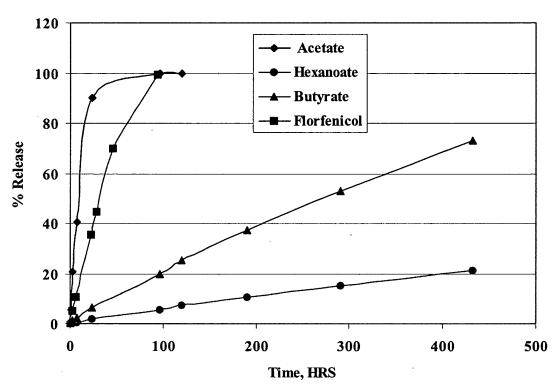


Fig. 3

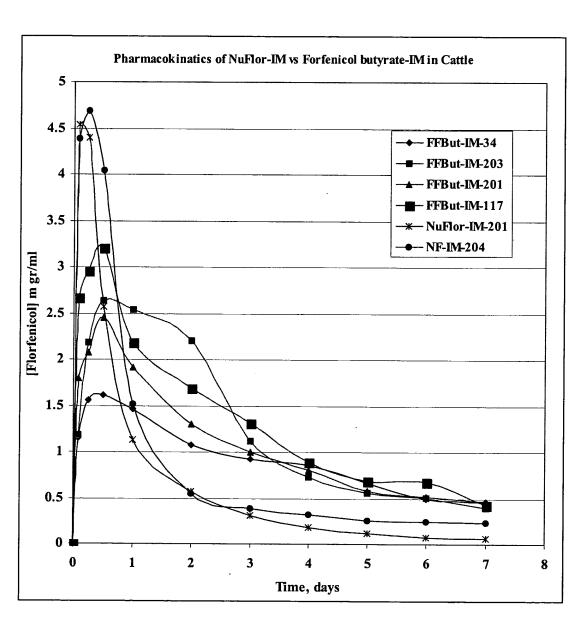
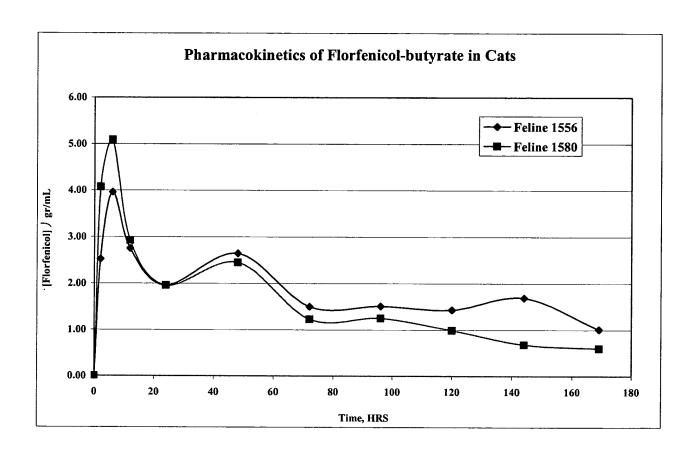


Fig. 4

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*Fig. 5* 

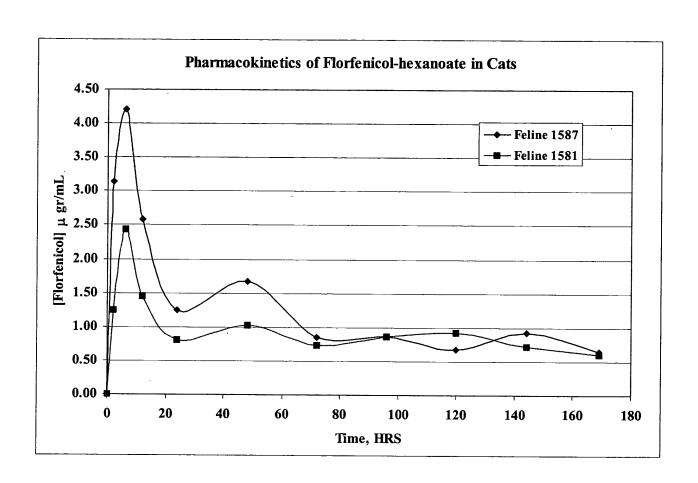


Fig. 6

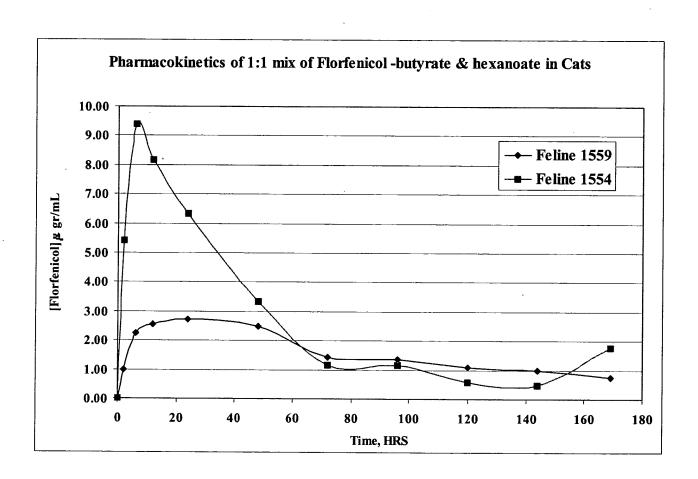


Fig. 7

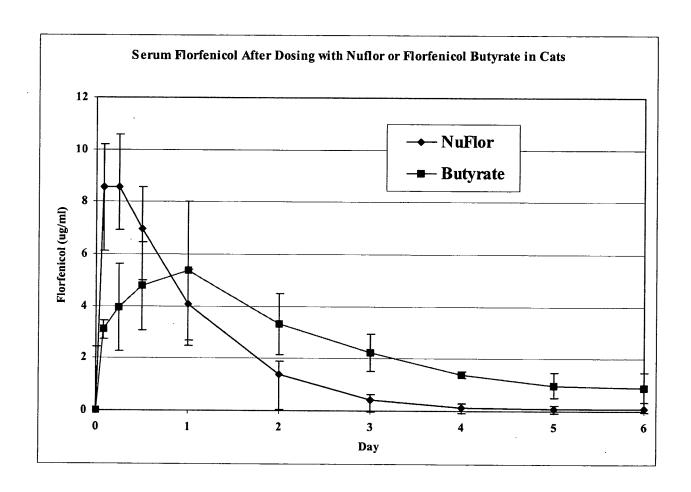


Fig. 8

FLORFENICOL SUCCINATE

# COMPOSITIONS CONTAINING PRODRUGS OF FLORFENICOL AND METHODS OF USE By Murthy, et al.; Atty. Docket No. 051091-2001

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Florfenicol Propionate:  $R = CH_3CH_2$ Florfenicol Pentanoate:  $R = CH_3(CH_2)_3$ Florfenicol Heptanoate:  $R = CH_3(CH_2)_5$ Florfenicol Octanoate:  $R = CH_3(CH_2)_6$ Florfenicol Nanoate:  $R = CH_3(CH_2)_7$ Florfenicol Decanoate:  $R = CH_3(CH_2)_8$ Florfenicol Undecanoate:  $R = CH_3(CH_2)_9$ Florfenicol Dodecanoate:  $R = CH_3(CH_2)_10$ -